



PCT

RAW SEQUENCE LISTING

DATE: 08/26/2004

PATENT APPLICATION: US/10/505,190

TIME: 15:53:37

Input Set : A:\WSUR23484Seq.txt

Output Set: N:\CRF4\08262004\J505190.raw

3 <110> APPLICANT: Ryan, Clarence A.
 4 Narvaez, Javier
 5 Pearce, Gregory L.
 6 McGurl, Barry F.
 8 <120> TITLE OF INVENTION: Methods for Increasing the Amount of Protein in Potato
 Tubers

10 <130> FILE REFERENCE: WSUR123484
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/505,190
 C--> 12 <141> CURRENT FILING DATE: 2004-08-19

12 <150> PRIOR APPLICATION NUMBER: US 60/359,472
 13 <151> PRIOR FILING DATE: 2002-02-22
 15 <150> PRIOR APPLICATION NUMBER: PCT/US03/05026
 16 <151> PRIOR FILING DATE: 2003-02-20
 18 <160> NUMBER OF SEQ ID NOS: 8
 20 <170> SOFTWARE: PatentIn version 3.1
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 18
 24 <212> TYPE: PRT

25 <213> ORGANISM: Tomato Systemin

27 <400> SEQUENCE: 1

29 Ala Val Gln Ser Lys Pro Pro Ser Lys Arg Asp Pro Pro Lys Met Gln

30 1 5 10 15

33 Thr Asp

37 <210> SEQ ID NO: 2

38 <211> LENGTH: 951

39 <212> TYPE: DNA

40 <213> ORGANISM: Lycopersicon esculentum

42 <220> FEATURE:

43 <221> NAME/KEY: CDS

44 <222> LOCATION: (105)..(704)

45 <223> OTHER INFORMATION:

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51 tataaagctc agctcatgaa gagttgaaat aaactaagaa aacc atg gga act cct 116

52 Met Gly Thr Pro

53 1

55 tca tat gat atc aaa aac aaa gga gat gac atg caa gaa gaa cca aag 164

56 Ser Tyr Asp Ile Lys Asn Lys Gly Asp Asp Met Gln Glu Glu Pro Lys

57 5 10 15 20

59 gtg aaa ctt cac cat gag aag gga gga gat gaa aag gaa aaa ata att 212

60 Val Lys Leu His His Glu Lys Gly Gly Asp Glu Lys Glu Lys Ile Ile

61 25 30 35

63 gaa aaa gag act cca tcc caa gat atc aac aac aaa gat acc atc tct 260

64 Glu Lys Glu Thr Pro Ser Gln Asp Ile Asn Asn Lys Asp Thr Ile Ser



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67 tca tat gtt tta aga gat gat aca caa gaa ata cca aag atg gaa cat      308
68 Ser Tyr Val Leu Arg Asp Asp Thr Gln Glu Ile Pro Lys Met Glu His
69          55          60          65
71 gag gag gga gga tat gta aag gag aaa att gtt gaa aag gag act ata      356
72 Glu Glu Gly Gly Tyr Val Lys Glu Lys Ile Val Glu Lys Glu Thr Ile
73          70          75          80
75 tcc caa tat atc atc aag att gaa gga gat gat gat gca caa gaa aaa      404
76 Ser Gln Tyr Ile Ile Lys Ile Glu Gly Asp Asp Asp Ala Gln Glu Lys
77 85          90          95          100
79 cta aag gtt gag tat gag gag gaa gaa tat gaa aaa gag aaa ata gtt      452
80 Leu Lys Val Glu Tyr Glu Glu Glu Glu Tyr Glu Lys Glu Lys Ile Val
81          105          110          115
83 gaa aaa gag act cca tcc caa gat atc aac aac aaa gga gat gat gca      500
84 Glu Lys Glu Thr Pro Ser Gln Asp Ile Asn Asn Lys Gly Asp Asp Ala
85          120          125          130
87 caa gaa aaa cca aag gtg gaa cat gag gaa gga gat gac aaa gag act      548
88 Gln Glu Lys Pro Lys Val Glu His Glu Glu Gly Asp Asp Lys Glu Thr
89          135          140          145
91 cca tca caa gat atc atc aag atg gaa ggg gag ggt gca cta gaa ata      596
92 Pro Ser Gln Asp Ile Ile Lys Met Glu Gly Glu Gly Ala Leu Glu Ile
93          150          155          160
95 aca aag gtg gta tgt gag aaa att ata gta cga gaa gat ctt gct gtt      644
96 Thr Lys Val Val Cys Glu Lys Ile Ile Val Arg Glu Asp Leu Ala Val
97 165          170          175          180
99 caa tca aaa cct cca tca aag cgt gat cct ccc aaa atg caa aca gac      692
100 Gln Ser Lys Pro Pro Ser Lys Arg Asp Pro Pro Lys Met Gln Thr Asp
101          185          190          195
103 aat aat aaa ctc tagaaacatc caaaaaaat taataaataa aaaattataa      744
104 Asn Asn Lys Leu
105          200
107 ttcagaacga taaagtaaaa attctgaatt tgtctcccgtagaaaaagta acttcaaata      804
109 aatatttgtc tttctttgta ttttcaaagt gtaatttggt tattgtactt tgagaagctt      864
111 tcttttagatt gttatgtact tgtattgctt cctttctttt ggcttattta tataatataa      924
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118 <212> TYPE: PRT
119 <213> ORGANISM: Lycopersicon esculentum
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131 Glu Lys Ile Ile Glu Lys Glu Thr Pro Ser Gln Asp Ile Asn Asn Lys
132          35          40          45
135 Asp Thr Ile Ser Ser Tyr Val Leu Arg Asp Asp Thr Gln Glu Ile Pro
136          50          55          60
139 Lys Met Glu His Glu Glu Gly Gly Tyr Val Lys Glu Lys Ile Val Glu

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140 65          70          75          80
143 Lys Glu Thr Ile Ser Gln Tyr Ile Ile Lys Ile Glu Gly Asp Asp Asp
144          85          90          95
147 Ala Gln Glu Lys Leu Lys Val Glu Tyr Glu Glu Glu Glu Tyr Glu Lys
148          100          105          110
151 Glu Lys Ile Val Glu Lys Glu Thr Pro Ser Gln Asp Ile Asn Asn Lys
152          115          120          125
155 Gly Asp Asp Ala Gln Glu Lys Pro Lys Val Glu His Glu Glu Gly Asp
156          130          135          140
159 Asp Lys Glu Thr Pro Ser Gln Asp Ile Ile Lys Met Glu Gly Glu Gly
160 145          150          155          160
163 Ala Leu Glu Ile Thr Lys Val Val Cys Glu Lys Ile Ile Val Arg Glu
164          165          170          175
167 Asp Leu Ala Val Gln Ser Lys Pro Pro Ser Lys Arg Asp Pro Pro Lys
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171 Met Gln Thr Asp Asn Asn Lys Leu
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176 <211> LENGTH: 54

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178 <213> ORGANISM: Lycopersicon esculentum

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185 <211> LENGTH: 18

186 <212> TYPE: PRT

187 <213> ORGANISM: Potato Systemin

189 <400> SEQUENCE: 5

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192 1 5 10 15

195 Thr Asp

199 <210> SEQ ID NO: 6

200 <211> LENGTH: 18

201 <212> TYPE: PRT

202 <213> ORGANISM: Potato Systemin

204 <400> SEQUENCE: 6

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210 Thr Asp

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216 <212> TYPE: PRT

217 <213> ORGANISM: Nightshade Systemin

219 <400> SEQUENCE: 7

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222 1 5 10 15

225 Thr Asp

229 <210> SEQ ID NO: 8

230 <211> LENGTH: 18

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Input Set : A:\WSUR23484Seq.txt

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232 <213> ORGANISM: Pepper Systemin

234 <400> SEQUENCE: 8

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240 Thr Asp

VERIFICATION SUMMARY

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:48 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:2,Line#:45